

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
 Data File : BF097779.D
 Acq On : 17 Aug 2017 10:33
 Operator : SJ/JU
 Sample : I4791-08 10X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-21-COMP

Manual Integrations
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 8/17/2017 5:58:22 PM

Quant Time: Aug 17 15:08:56 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 15 13:25:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.78	152	153246	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	573176	20.00	ng	0.00
38) Acenaphthene-d10	9.82	164	228890	20.00	ng	0.00
63) Phenanthrene-d10	11.30	188	334896	20.00	ng	0.00
75) Chrysene-d12	13.93	240	295901	20.00	ng	0.00
86) Perylene-d12	15.36	264	266496	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	105763	10.50	ng	-0.01
7) Phenol-d6	6.40	99	144162	10.53	ng	-0.01
23) Nitrobenzene-d5	7.33	82	85358	8.09	ng	-0.02
41) 2,4,6-Tribromophenol	10.60	330	13180	6.64	ng	-0.01
44) 2-Fluorobiphenyl	9.13	172	132115	8.48	ng	-0.01
78) Terphenyl-d14	12.88	244	66670	4.70	ng	-0.01
Target Compounds						
31) Naphthalene	8.09	128	436792	14.679	ng	99
70) Phenanthrene	11.32	178	301370	16.888	ng	98
71) Anthracene	11.37	178	48598	2.685	ng	98
74) Fluoranthene	12.51	202	457314	24.552	ng	99
77) Pyrene	12.74	202	460959	19.047	ng	97
80) Benzo(a)anthracene	13.92	228	256288	14.451	ng	97
82) Chrysene	13.96	228	257181	14.578	ng	97
85) Indeno(1,2,3-cd)pyrene	16.76	276	90200	6.950	ng	# 88
87) Benzo(b)fluoranthene	14.95	252	292772m	17.429	ng	
88) Benzo(k)fluoranthene	14.97	252	101855m	6.454	ng	
89) Benzo(a)pyrene	15.30	252	202977	13.649	ng	98
90) Dibenzo(a,h)anthracene	16.77	278	28385	2.345	ng	96
91) Benzo(a,h,i)perylene	17.17	276	87484	6.925	ng	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

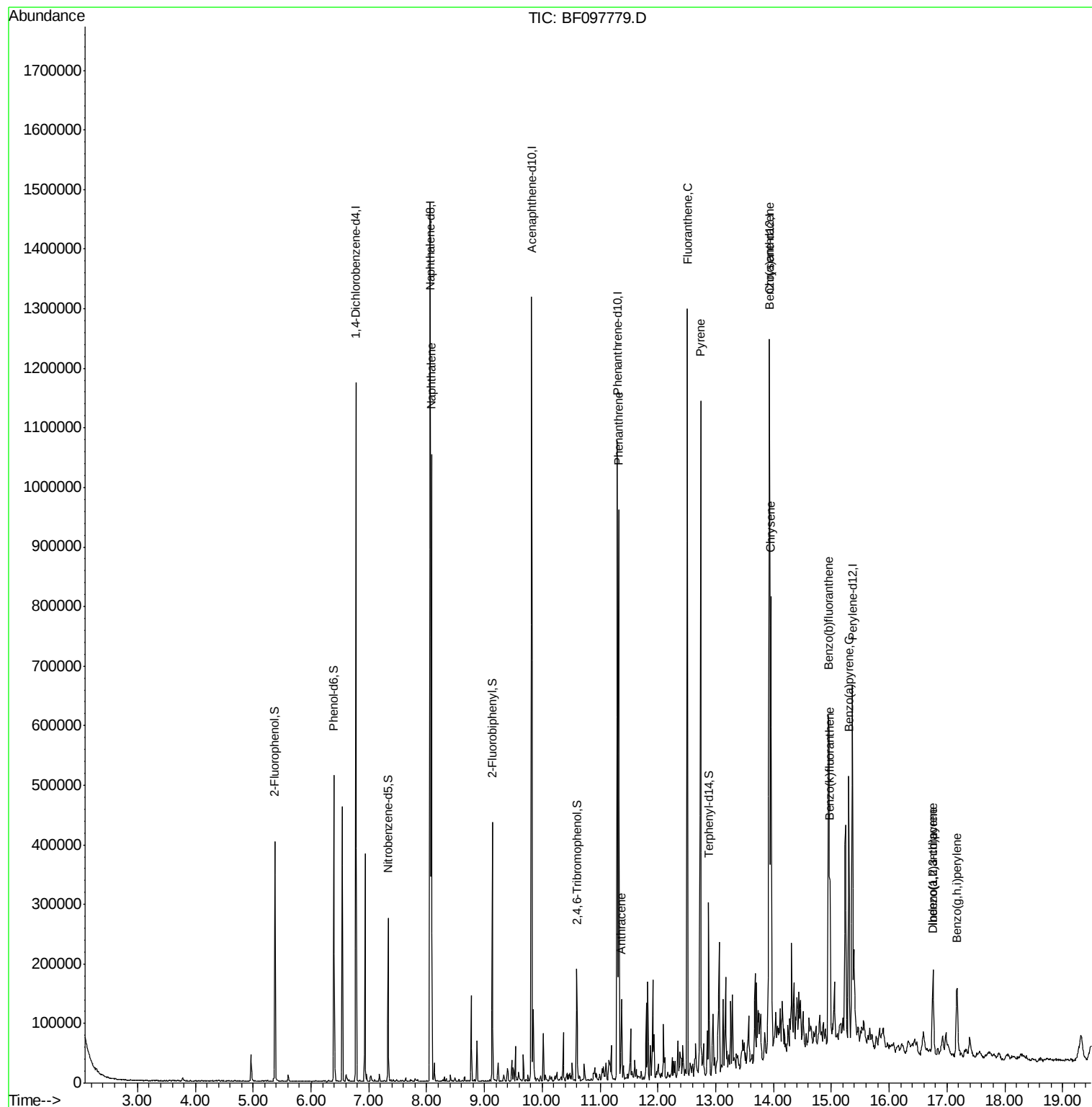
Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
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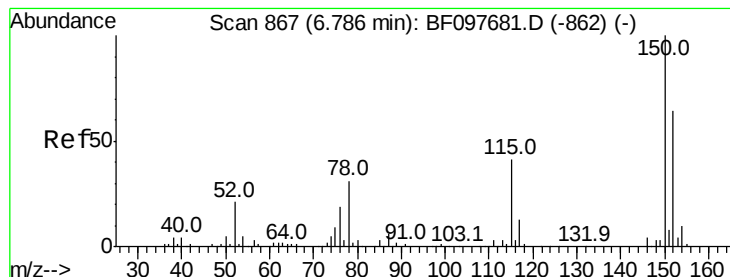
Instrument :
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#1

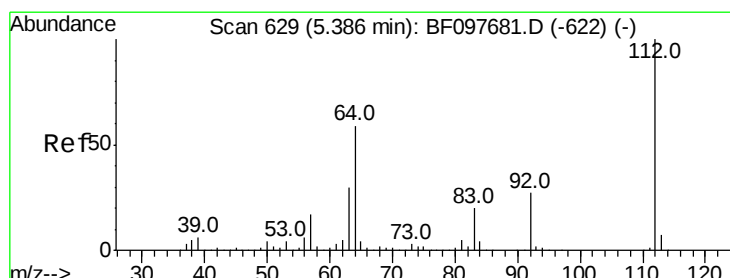
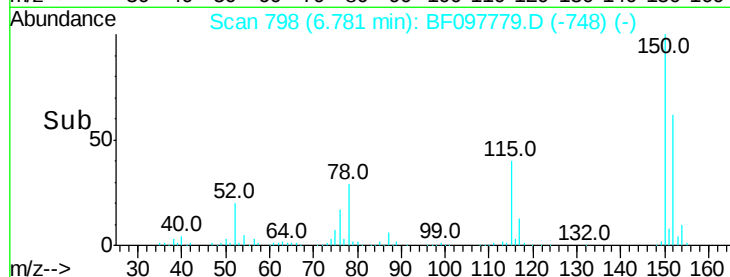
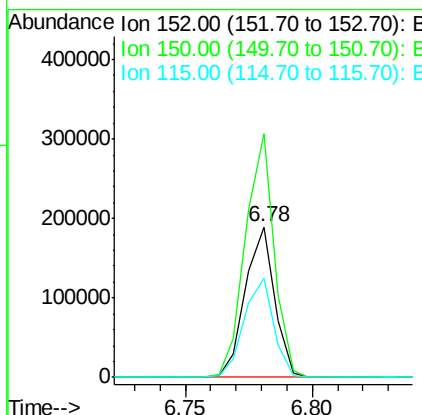
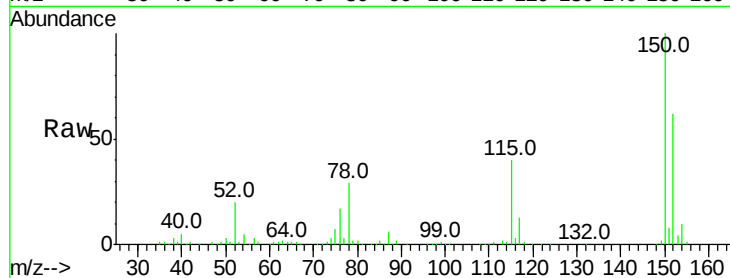
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.78 min Scan# 798
Delta R.T. -0.01 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

Instrument :
BNA_F
ClientSampleId :
SB-21-COMP

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.4	126.2	189.2
115	65.2	52.2	78.2

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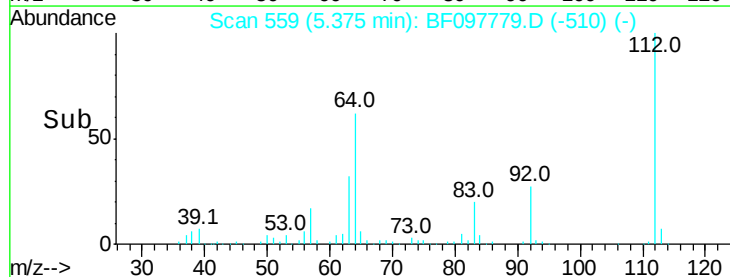
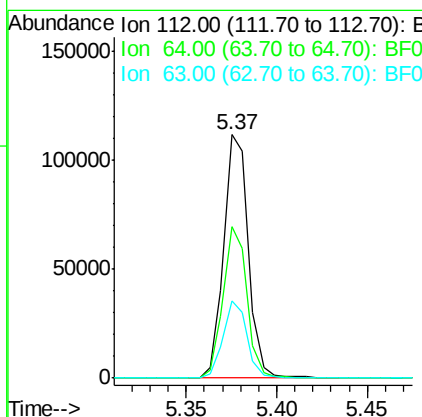
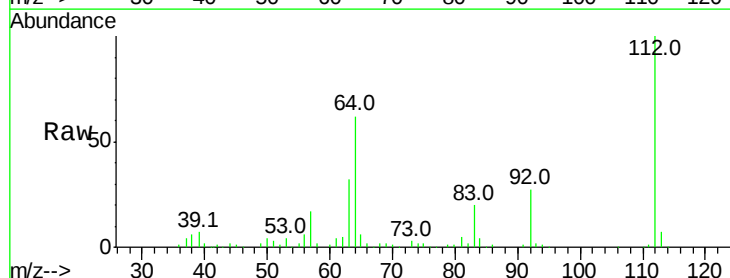
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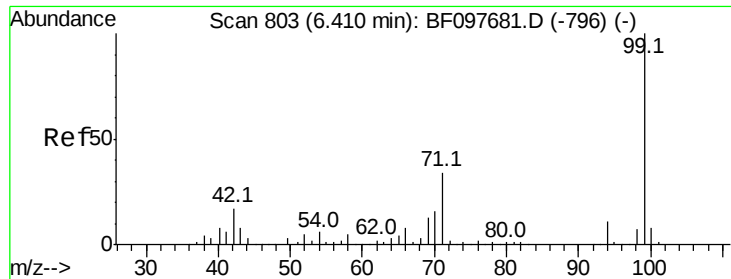


#5

2-Fluorophenol
Concen: 10.498 ng
RT: 5.37 min Scan# 559
Delta R.T. -0.01 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.2	46.0	69.0
63	31.5	23.4	35.0





#7

Phenol-d6

Concen: 10.531 ng

RT: 6.40 min Scan# 733

Delta R.T. -0.01 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

Instrument :

BNA_F

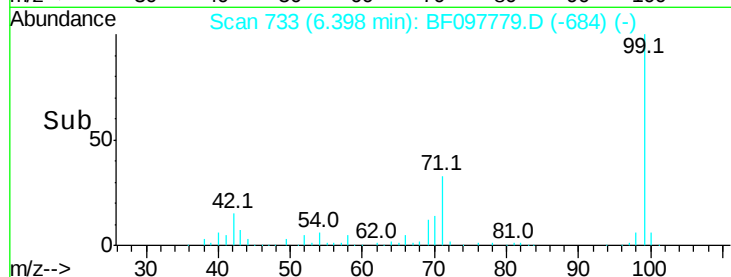
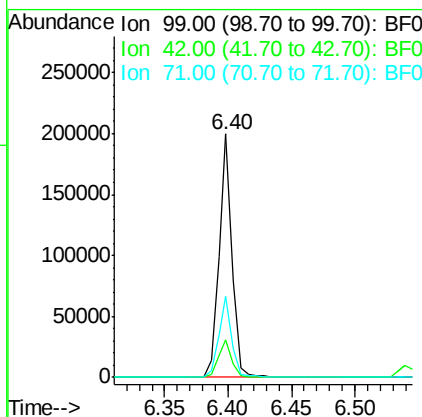
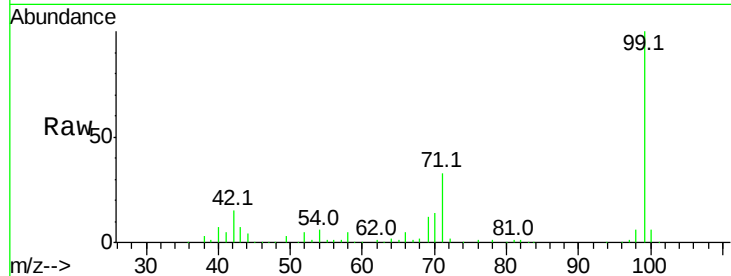
ClientSampled :

SB-21-COMP

Tot Ion:	99	Resp:	144162
Ion Ratio	Lower	Upper	
99	100		
42	15.2	13.5	20.3
71	33.1	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

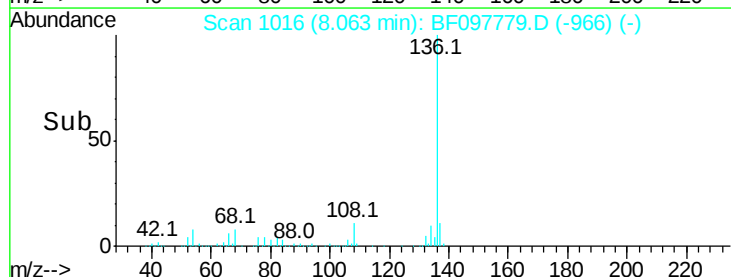
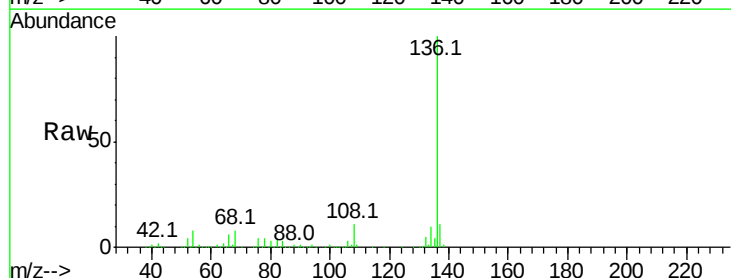
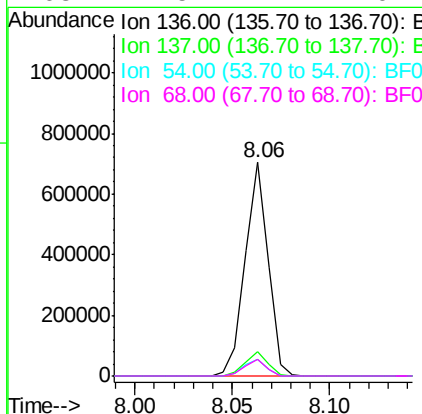
RT: 8.06 min Scan# 1016

Delta R.T. -0.01 min

Lab File: BF097779.D

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Tgt Ion:	136	Resp:	573176
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.5	12.7
54	7.8	4.9	7.3#
68	7.5	4.1	6.1#





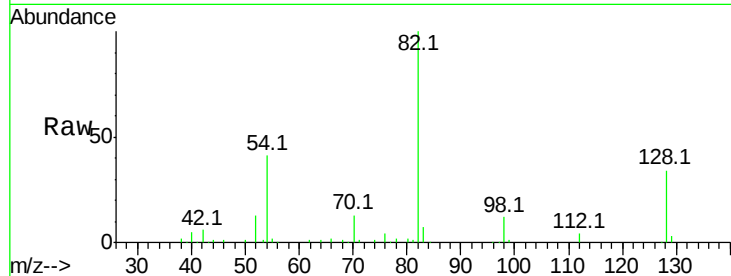
#23
 Nitrobenzene-d5
 Concen: 8.090 ng
 RT: 7.33 min Scan# 892
 Delta R.T. -0.02 min
 Lab File: BF097779.D
 Acq: 17 Aug 2017 10:33

Instrument :
 BNA_F
 ClientSampleId :
 SB-21-COMP

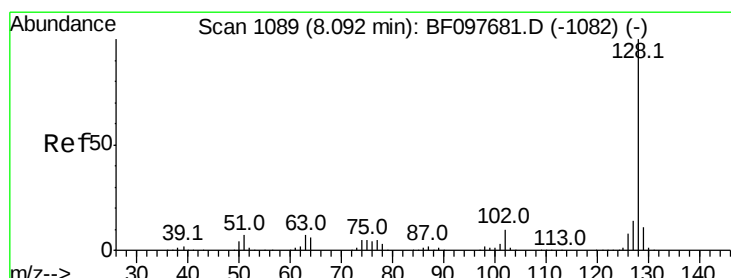
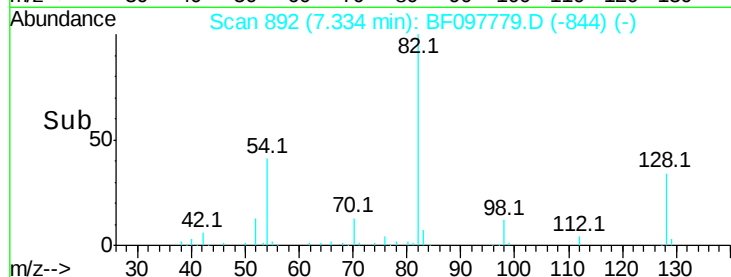
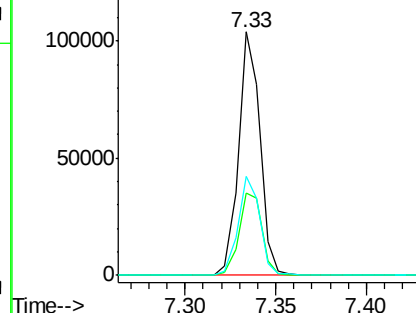
Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	34.0	34.0	51.0	
54	40.7	42.2	63.2	

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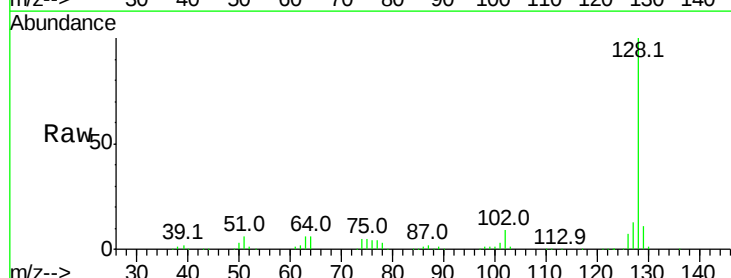


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

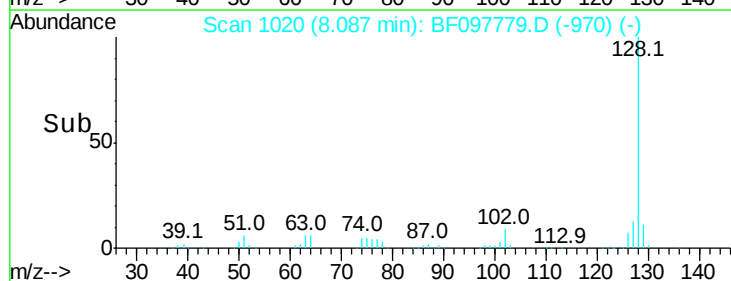
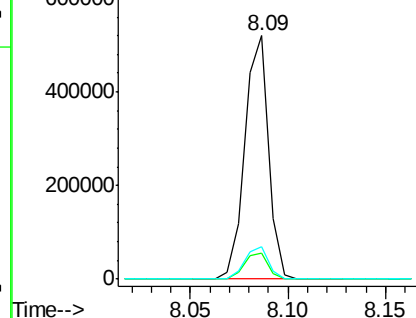


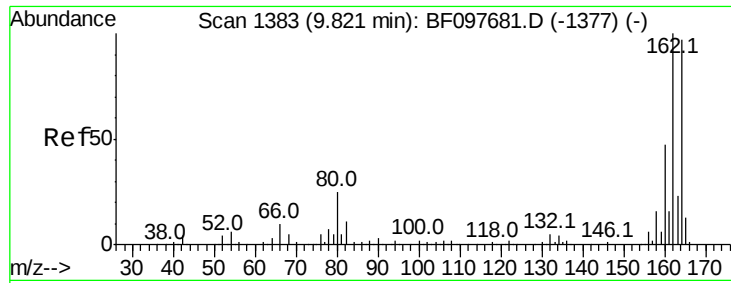
#31
 Naphthalene
 Concen: 14.679 ng
 RT: 8.09 min Scan# 1020
 Delta R.T. -0.01 min
 Lab File: BF097779.D
 Acq: 17 Aug 2017 10:33

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.8	9.0	13.6	
127	13.2	10.8	16.2	



Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E





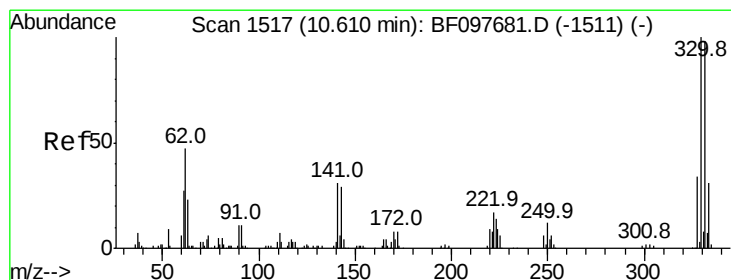
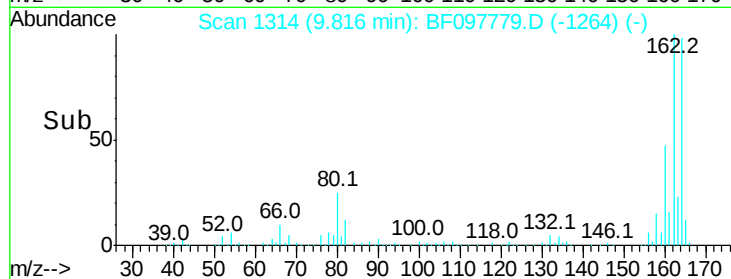
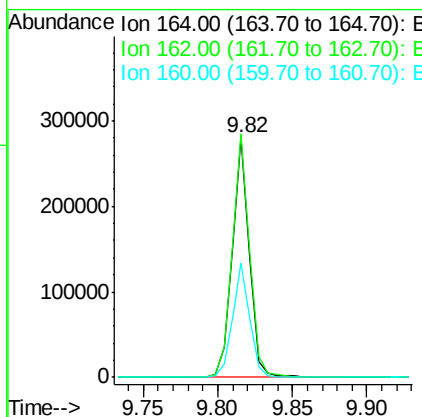
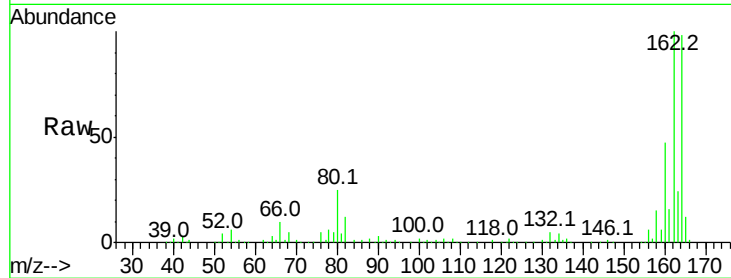
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.82 min Scan# 1314
Delta R.T. -0.01 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

Instrument :
BNA_F
ClientSampleId :
SB-21-COMP

Tot Ion	Ratio	Resp	Lower	Upper
164	100	228890		
162	101.8	82.6	123.8	
160	48.0	36.2	54.2	

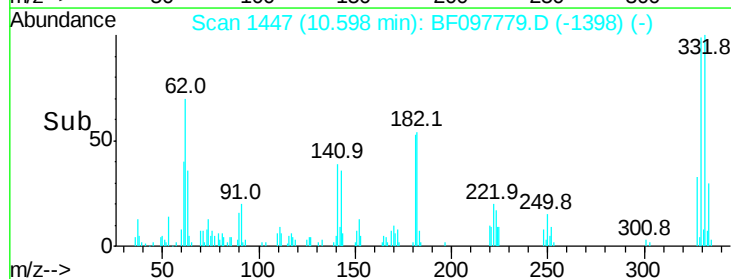
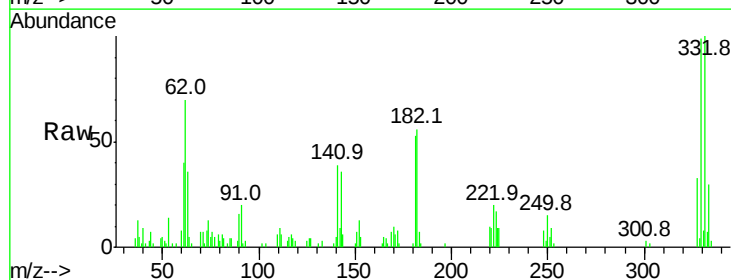
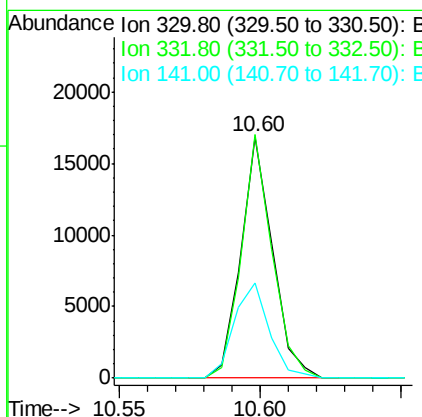
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#41
2,4,6-Tribromophenol
Concen: 6.636 ng
RT: 10.60 min Scan# 1447
Delta R.T. -0.01 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	13180		
332	98.2	76.6	115.0	
141	43.7	31.4	47.2	





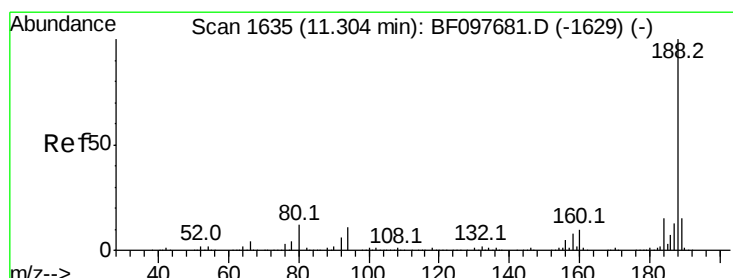
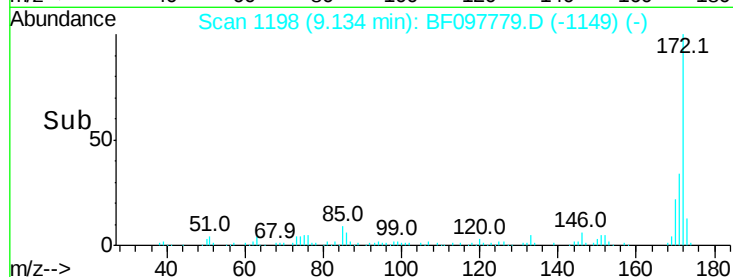
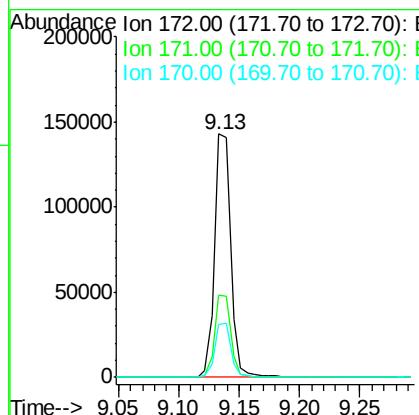
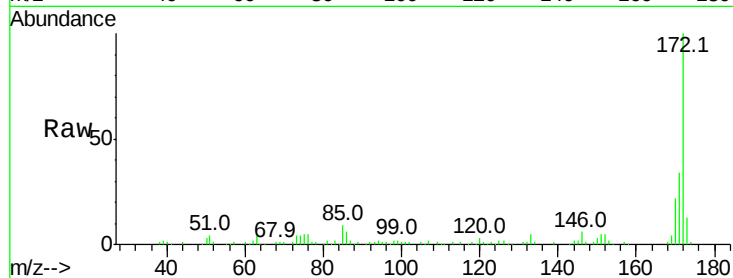
#44
 2-Fluorobiphenyl
 Concen: 8.480 ng
 RT: 9.13 min Scan# 1198
 Delta R.T. -0.01 min
 Lab File: BF097779.D
 Acq: 17 Aug 2017 10:33

Instrument :
 BNA_F
 ClientSampleId :
 SB-21-COMP

Tot Ion:	172	Resp:	132115
Ion Ratio	Lower	Upper	
172	100		
171	33.8	29.6	44.4
170	21.8	19.8	29.8

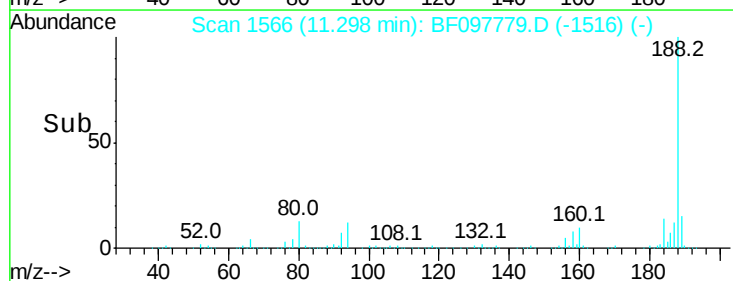
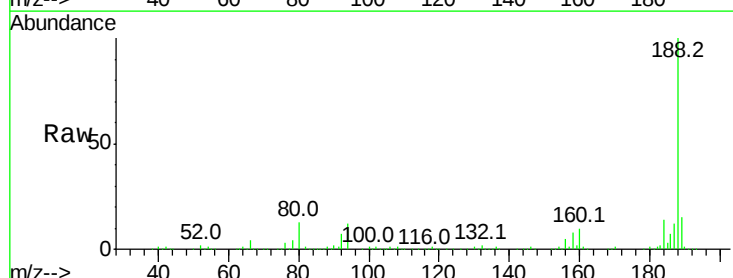
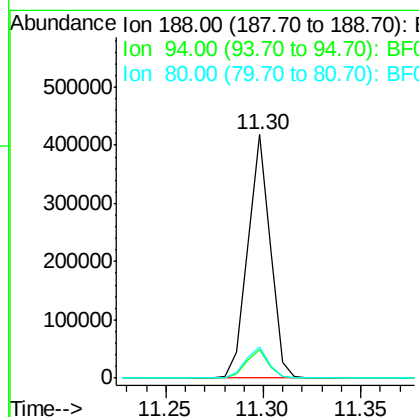
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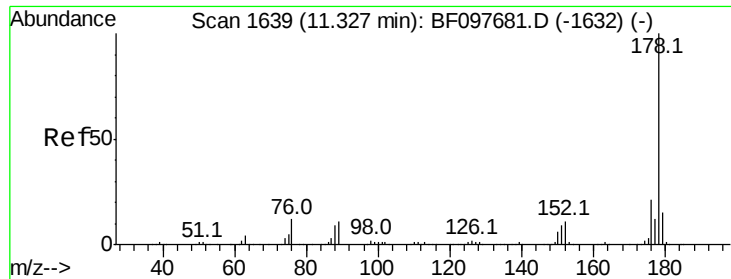
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#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.30 min Scan# 1566
 Delta R.T. -0.01 min
 Lab File: BF097779.D
 Acq: 17 Aug 2017 10:33

Tgt Ion:	188	Resp:	334896
Ion Ratio	Lower	Upper	
188	100		
94	11.8	9.4	14.2
80	12.8	10.2	15.2





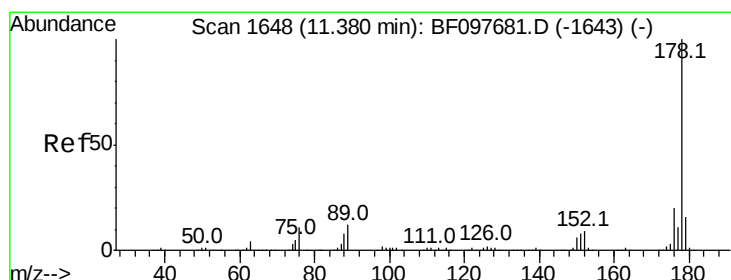
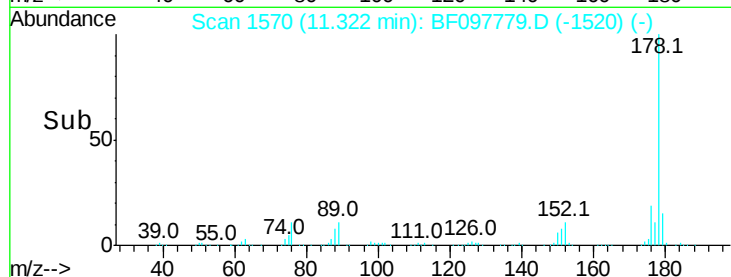
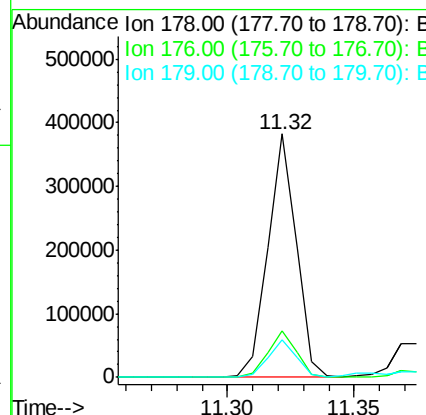
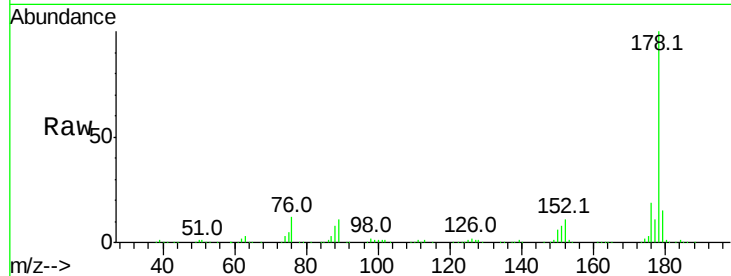
#70
Phenanthrene
Concen: 16.888 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.01 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

Instrument :
BNA_F
ClientSampleId :
SB-21-COMP

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	16.2	24.4
179	15.2	12.6	19.0

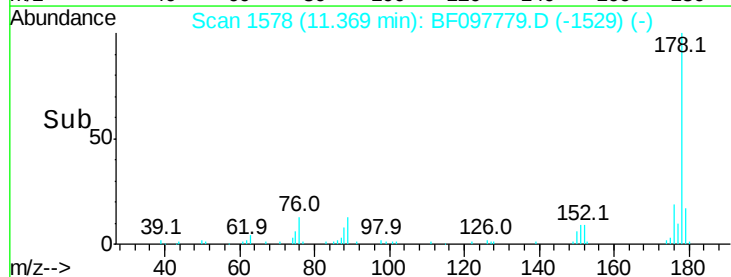
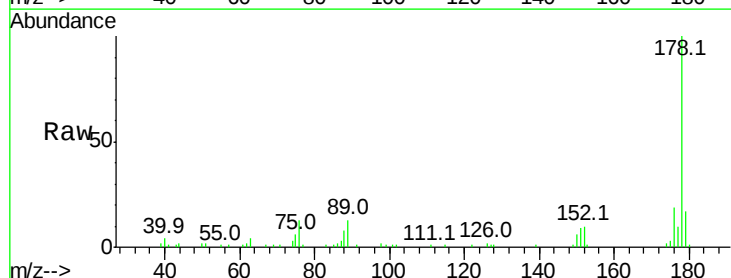
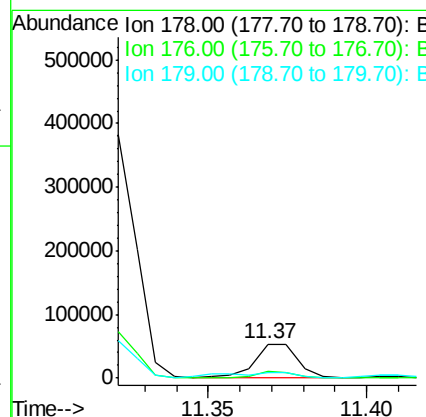
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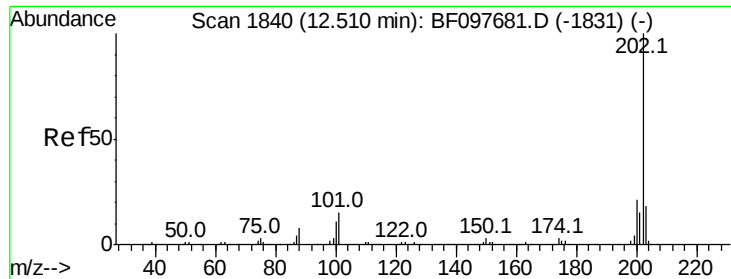
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#71
Anthracene
Concen: 2.685 ng
RT: 11.37 min Scan# 1578
Delta R.T. -0.01 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.8	23.8
179	16.8	12.7	19.1





#74

Fluoranthene

Concen: 24.552 ng

RT: 12.51 min Scan# 1772

Delta R.T. 0.00 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

Instrument :

BNA_F

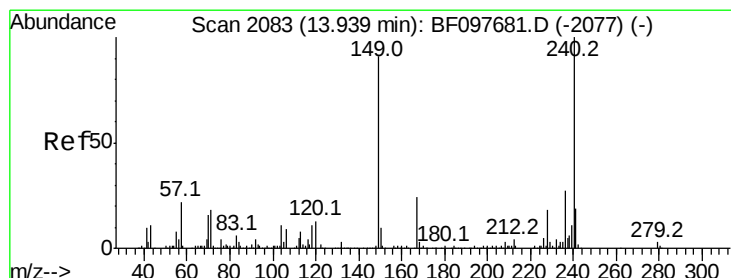
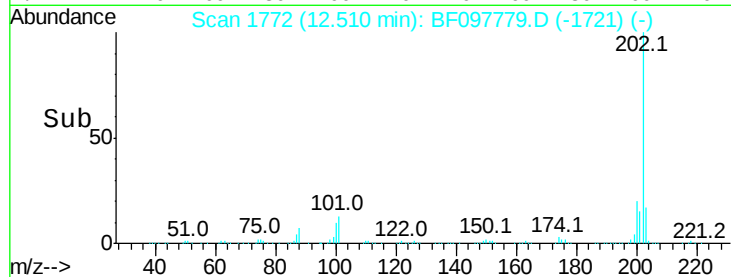
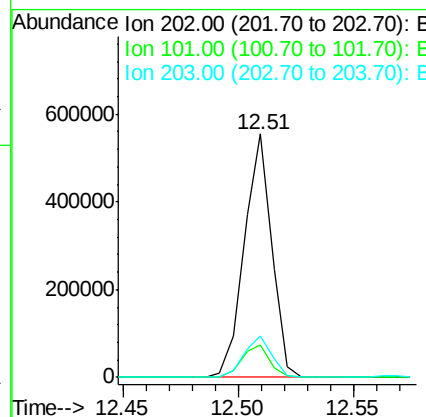
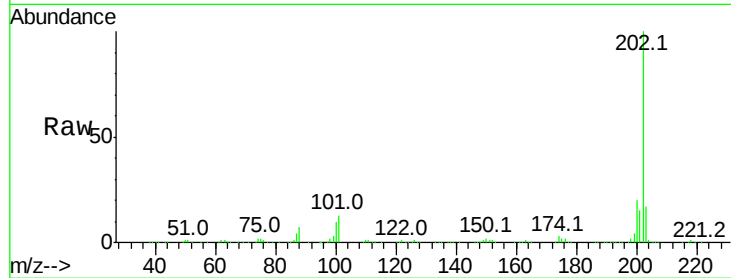
ClientSampleId :

SB-21-COMP

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	13.1	0.0	33.2
203	17.1	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

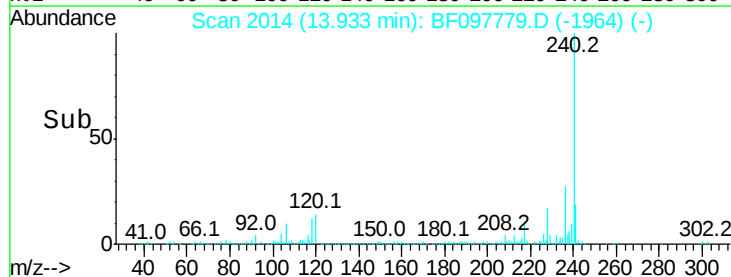
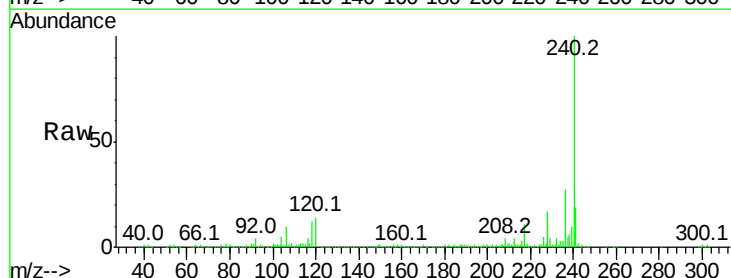
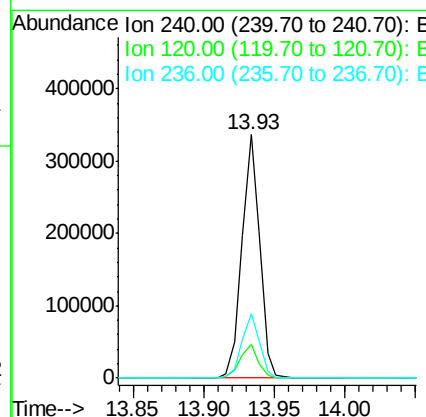
RT: 13.93 min Scan# 2014

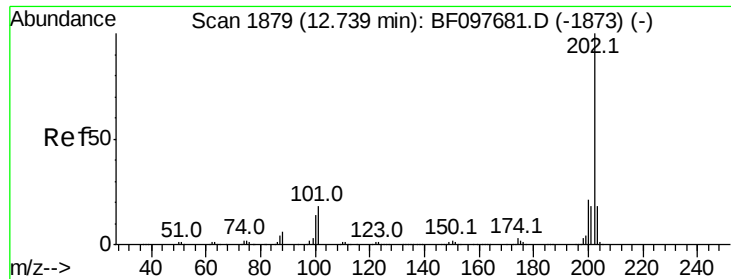
Delta R.T. -0.01 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	13.8	5.8	8.8#
236	26.6	20.5	30.7





#77

Pvrene

Concen: 19.047 ng

RT: 12.74 min Scan# 1811

Delta R.T. 0.00 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

Instrument :

BNA_F

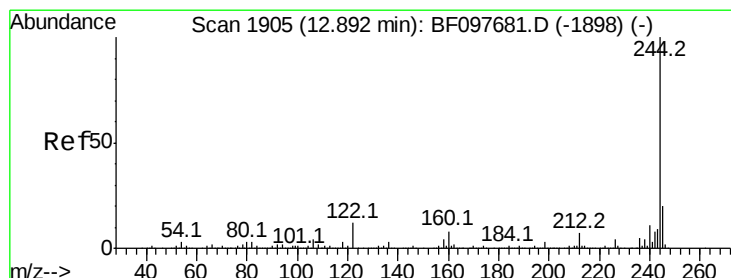
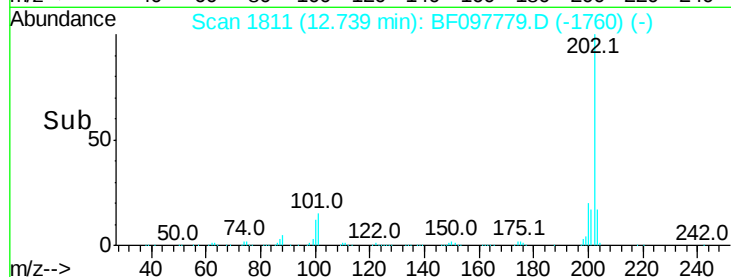
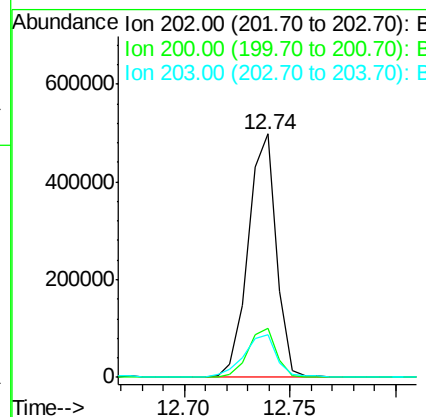
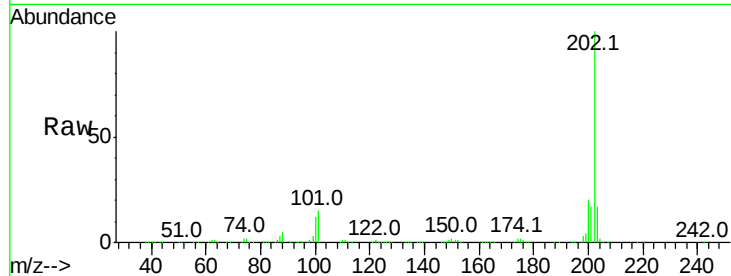
ClientSampleId :

SB-21-COMP

Tot Ion:	202	Resp:	460959
Ion Ratio	Lower	Upper	
202	100		
200	20.2	17.6	26.4
203	17.3	14.4	21.6

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#78

Terphenyl-d14

Concen: 4.699 ng

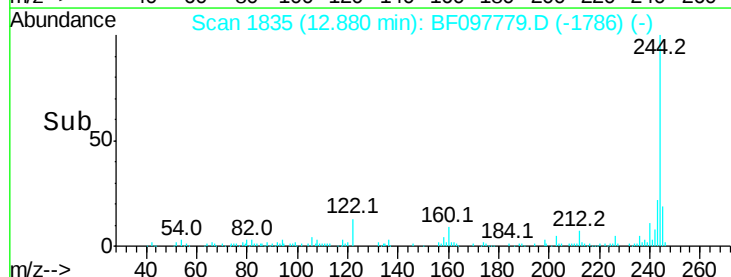
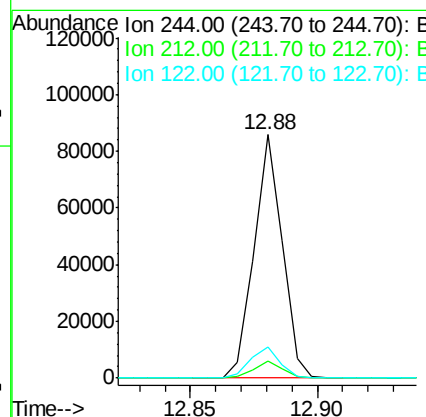
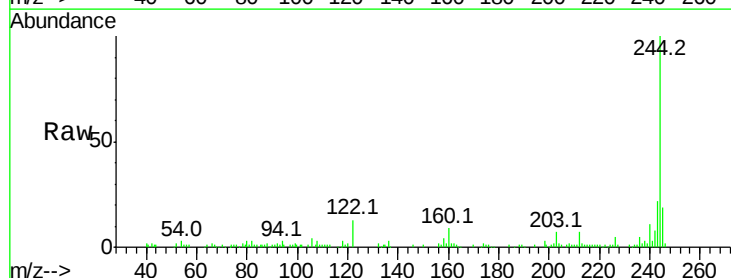
RT: 12.88 min Scan# 1835

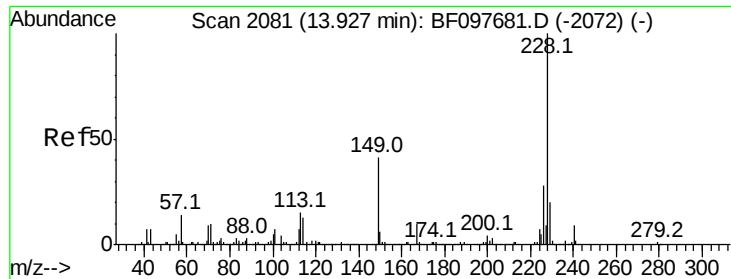
Delta R.T. -0.01 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

Tgt Ion:	244	Resp:	66670
Ion Ratio	Lower	Upper	
244	100		
212	7.1	6.0	9.0
122	12.8	10.3	15.5





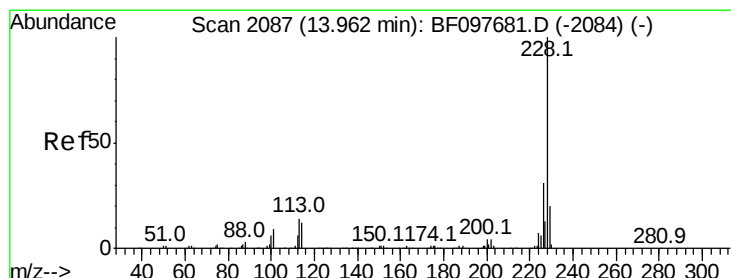
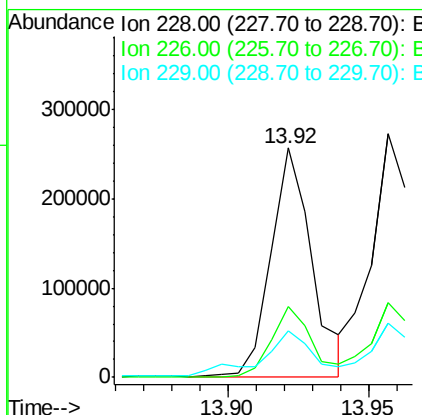
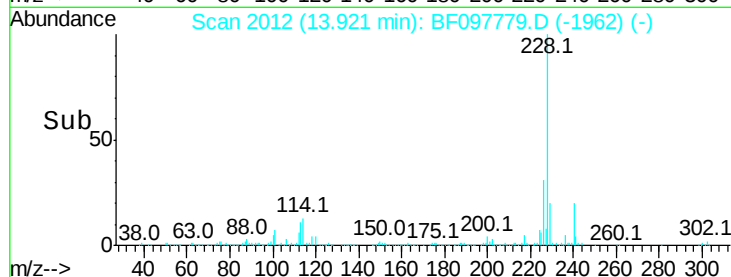
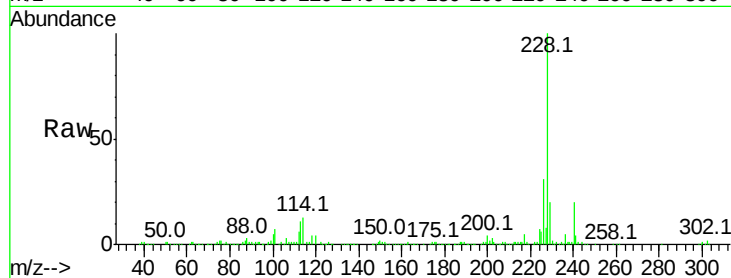
#80
Benzo(a)anthracene
Concen: 14.451 ng
RT: 13.92 min Scan# 2012
Delta R.T. -0.01 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

Instrument :
BNA_F
ClientSampleId :
SB-21-COMP

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.8	22.6	33.8
229	20.3	16.3	24.5

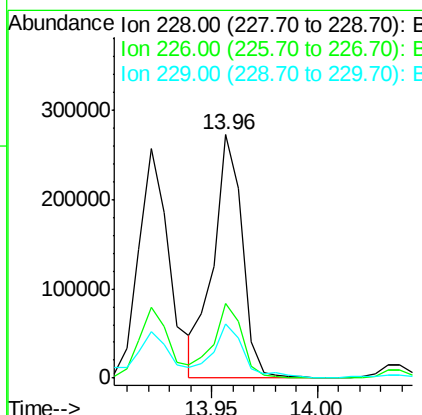
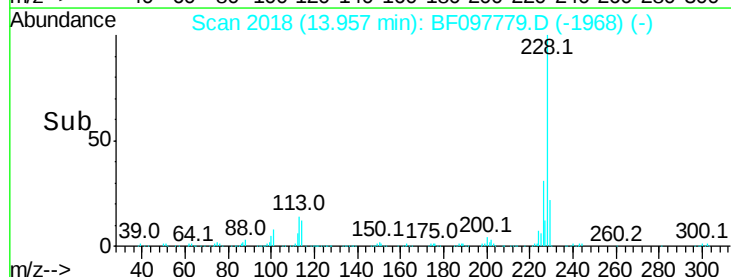
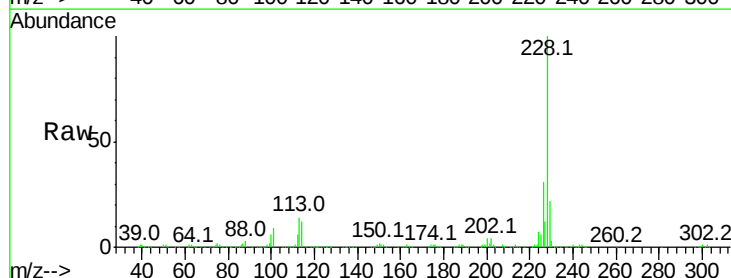
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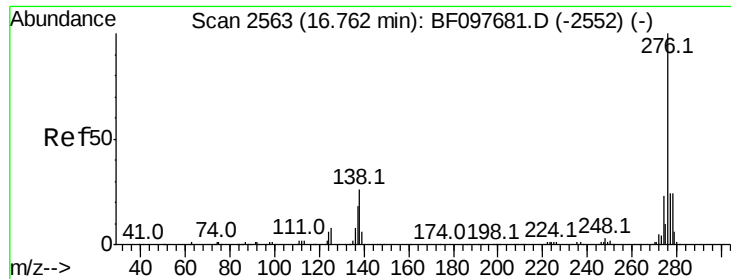
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#82
Chrysene
Concen: 14.578 ng
RT: 13.96 min Scan# 2018
Delta R.T. -0.01 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.9	37.3
229	22.3	15.8	23.6





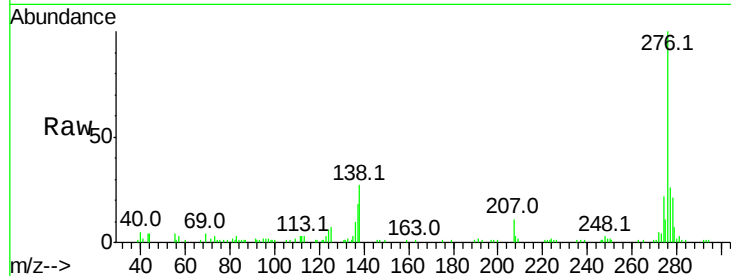
#85
Indeno(1,2,3-cd)pyrene
Concen: 6.950 ng
RT: 16.76 min Scan# 2494
Delta R.T. -0.01 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

Instrument :
BNA_F
ClientSampleId :
SB-21-COMP

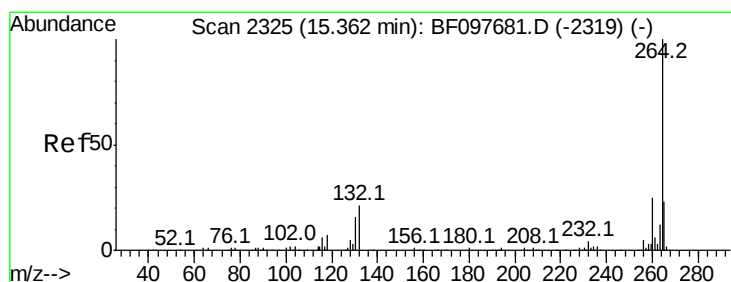
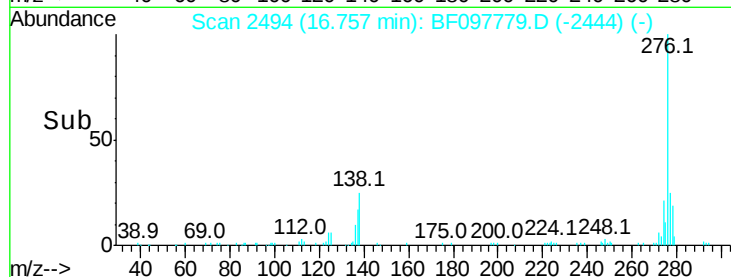
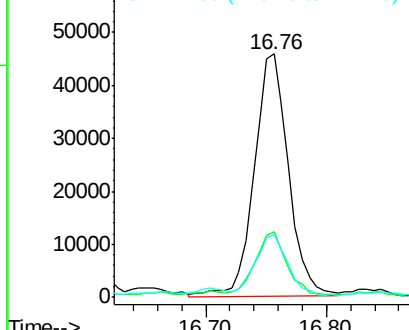
Tot Ion	Ratio	Lower	Upper
276	100		
138	23.8	27.8	41.6#
277	24.3	20.2	30.4

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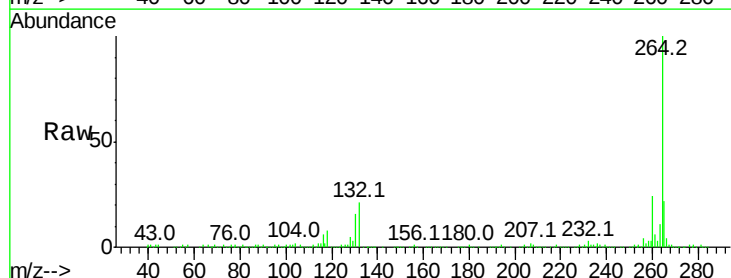


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

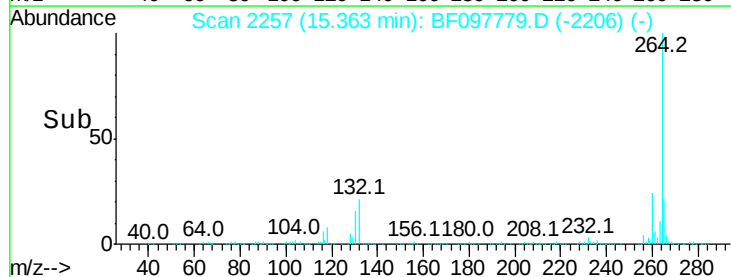
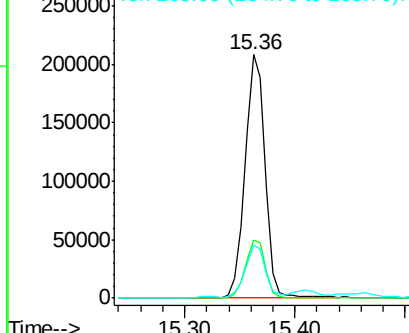


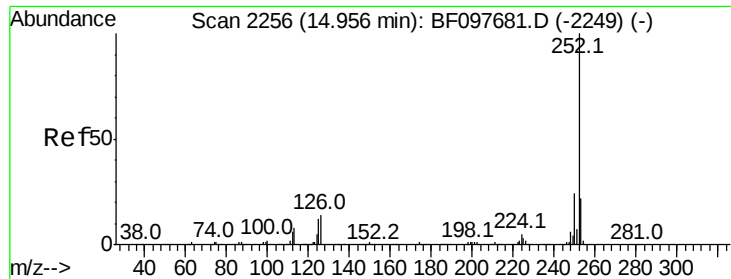
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.36 min Scan# 2257
Delta R.T. 0.00 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.5	29.3
265	21.6	17.2	25.8



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 17.429 ng m

RT: 14.95 min Scan# 2187

Delta R.T. -0.01 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

Instrument :

BNA_F

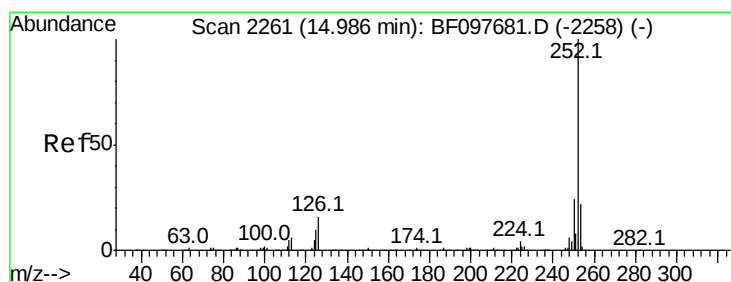
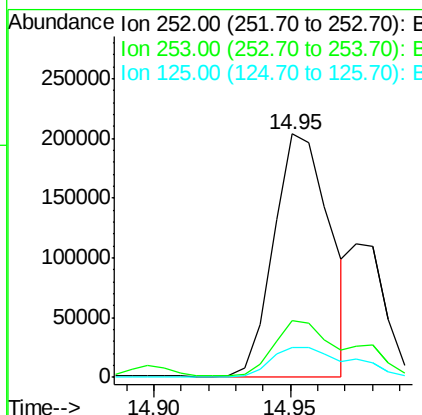
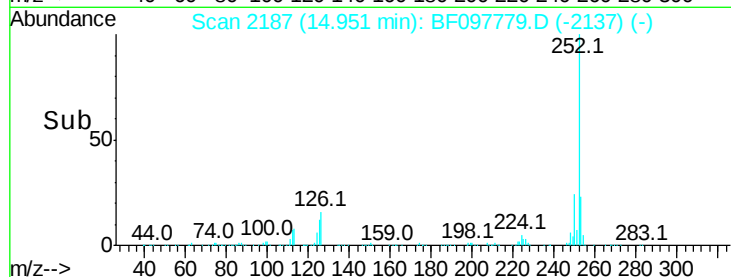
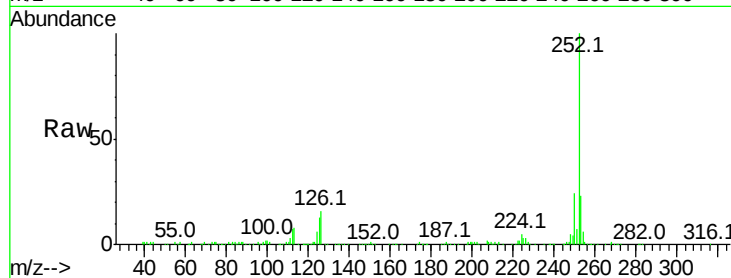
ClientSampleId :

SB-21-COMP

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.1	27.1
125	12.5	9.8	14.8

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#88

Benzo(k)fluoranthene

Concen: 6.454 ng m

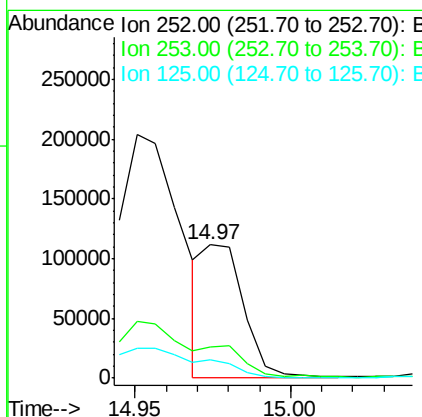
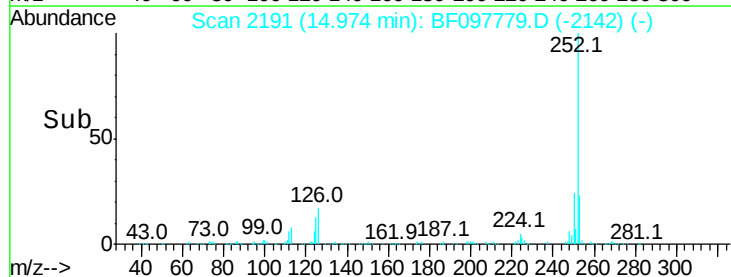
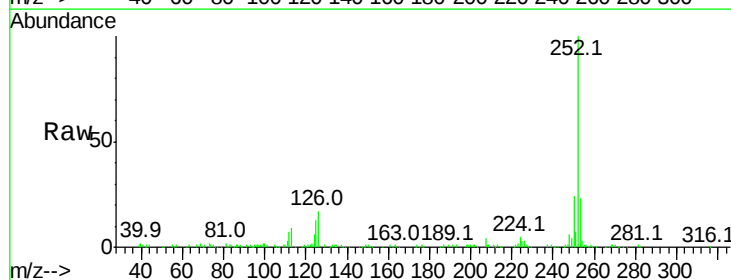
RT: 14.97 min Scan# 2191

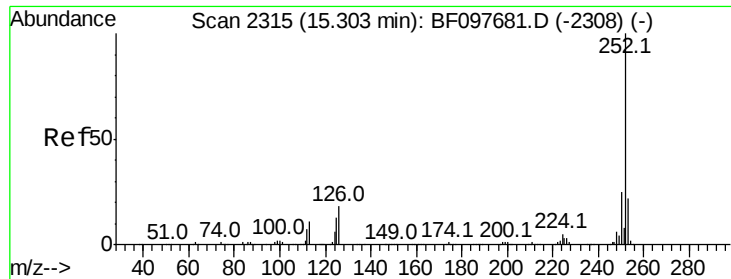
Delta R.T. -0.01 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.4	27.6
125	13.3	13.1	19.7





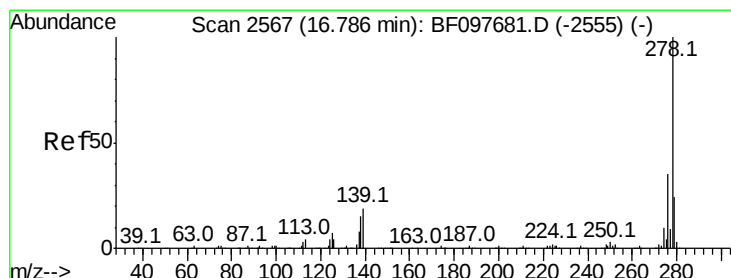
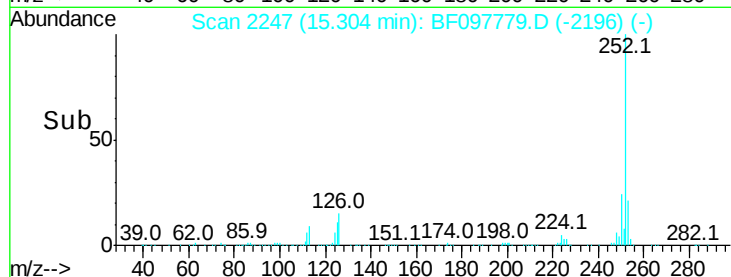
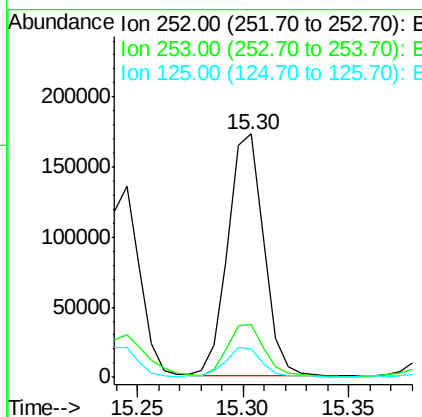
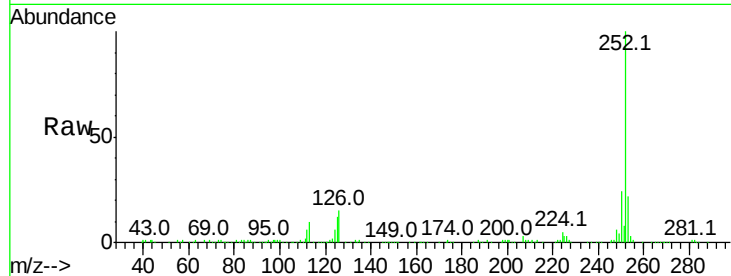
#89
Benzo(a)pyrene
Concen: 13.649 ng
RT: 15.30 min Scan# 2247
Delta R.T. 0.00 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

Instrument :
BNA_F
ClientSampleId :
SB-21-COMP

Tot Ion	Ratio	Resp	Lower	Upper
252	100	202977		
253	21.9	17.5	26.3	
125	11.8	11.0	16.4	

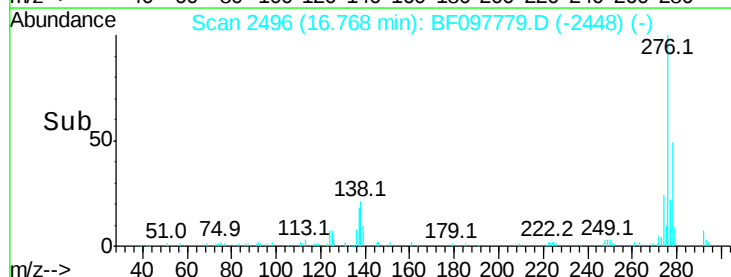
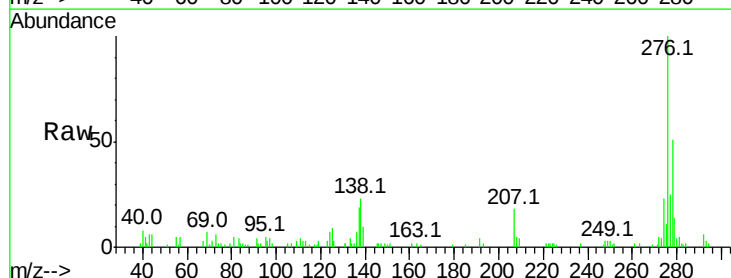
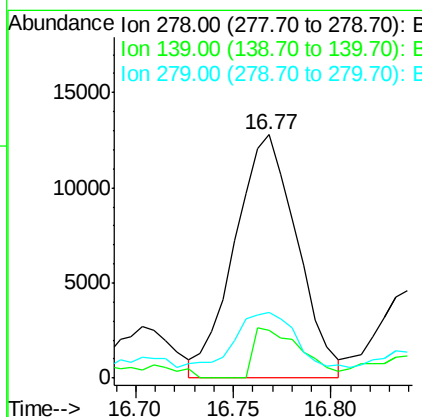
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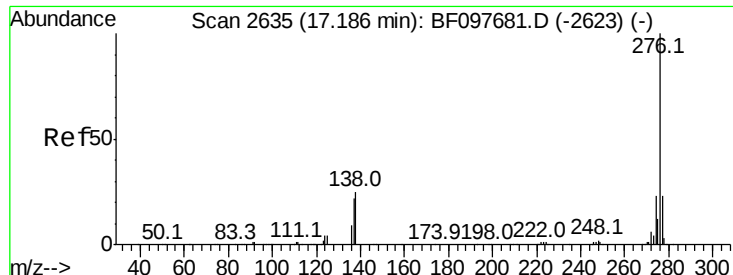
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#90
Dibenzo(a,h)anthracene
Concen: 2.345 ng
RT: 16.77 min Scan# 2496
Delta R.T. -0.02 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	28385		
139	19.6	16.6	24.8	
279	27.1	19.3	28.9	





#91
 Benzo(a,h,i)perylene
 Concen: 6.925 ng
 RT: 17.17 min Scan# 2565
 Delta R.T. -0.01 min
 Lab File: BF097779.D
 Acq: 17 Aug 2017 10:33

Instrument :
 BNA_F
 ClientSampleId :
 SB-21-COMP

Tot Ion:	276	Resp:	87484
Ion Ratio	Lower	Upper	
276	100		
277	24.1	18.6	28.0
138	25.8	25.4	38.0

Manual Integrations
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